

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Houston

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TestAmerica Job ID: 600-106262-1

Client Project/Site: CB&I Federal Services LLC . . – Houston

For:

CB&I Federal Services LLC

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Authorized for release by:

2/12/2015 8:39:41 PM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: CB&I Federal Services LLC
Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Job ID: 600-106262-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative 600-106262-1

Comments

No additional comments.

Receipt

The samples were received on 2/4/2015 3:16 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 14.8° C.

GC/MS VOA

Method(s) 8260B: The following sample was diluted due to the abundance of non-target analytes: <600-106262-1>. Elevated reporting limits (RLs) are provided.

8260B
#112666

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 600-155609 recovered above the upper control limit for Bromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 600-155609/3).

Method(s) 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 600-155609 recovered outside control limits for the following analyte: Bromomethane. This analyte was biased high in the LCS/LCSD and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: FT 21S012-2.4.29S (600-106262-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: FT 21S012-2.4.29S (600-106262-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) required a dilution due to the nature of the sample matrix: FT 21S012-2.4.29S (600-106262-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The laboratory control sample (LCS) for batch 155533 recovered outside control limits for the following analyte: 4-Nitroaniline. This analyte was biased high in the LCS and was not detected in the associated sample; therefore, the data have been reported.

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: (600-106262-1 MS), FT 21S012-2.4.29S (600-106262-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) required a dilution due to the nature of the sample matrix: (600-106262-1 MS), FT 21S012-2.4.29S (600-106262-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: Due to the high concentration of target analytes, the matrix spike (MS) for 155586 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Case Narrative

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Job ID: 600-106262-1 (Continued)

Laboratory: TestAmerica Houston (Continued)

Method(s) TX 1005: The following sample(s) was diluted due to the nature of the sample matrix: FT 21S012-2.4.29S (600-106262-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 6010B: The TCLP leachate blank for batch 155568 contained Barium above the reporting limit (RL). This target analyte concentration was less than the TCLP Regulatory Limit. The associated samples were also below the TCLP Regulatory Limit for this analyte; therefore, re-extraction was not performed.

Method(s) 6010B: The method blank for batch 155328 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The leachate blank for batch 155568 contained Chromium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method(s) 3510C: Due to the matrix, the following sample(s) could not be concentrated to the final method required volume: (600-106262-1 MS), FT 21S012-2.4.29S (600-106262-1). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Method Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CC
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
6010B	Metals (ICP)	SW846	TAL HOU
6010B	Metals (ICP)	SW846	TAL NSH
7470A	Mercury (CVAA)	SW846	TAL HOU
7471A	Mercury (CVAA)	SW846	TAL HOU
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL HOU
9012	Cyanide, Reactive	SW846	TAL HOU
9023	Organic Halides, Extractable (EOX)	SW846	TAL CAN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	TAL HOU
9040B	pH	SW846	TAL HOU
D1796	Water and Sediment in Fuel Oils	ASTM	TAL CC
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL HOU

Protocol References:

ASTM = ASTM International

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-106262-1	FT 21S012-2.4.29S	Waste	02/04/15 11:35	02/04/15 15:16

1

2

3

4

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9

10

11

12

13

14

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Client Sample ID: FT 21S012-2.4.29S

Lab Sample ID: 600-106262-1

Matrix: Waste

Date Collected: 02/04/15 11:35

Date Received: 02/04/15 15:16

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.830	U	5.00	0.830	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Benzene	2.29	J	2.50	0.315	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Chlorobromomethane	0.890	U	2.50	0.890	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Bromoform	0.685	U	2.50	0.685	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Bromomethane	0.415	U *	5.00	0.415	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
2-Butanone (MEK)	0.950	U	5.00	0.950	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Carbon disulfide	0.275	U	5.00	0.275	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Carbon tetrachloride	0.565	U	2.50	0.565	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Dibromochloromethane	0.470	U	2.50	0.470	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Chlorobenzene	0.480	U	2.50	0.480	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Chloroethane	0.700	U	5.00	0.700	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Chloroform	0.726	J	2.50	0.330	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Chloromethane	0.830	U	5.00	0.830	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
1,1-Dichloroethane	0.435	U	2.50	0.435	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
1,2-Dichloroethane	0.450	U	2.50	0.450	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
1,1-Dichloroethene	0.610	U	2.50	0.610	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
cis-1,2-Dichloroethene	0.415	U	2.50	0.415	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
trans-1,2-Dichloroethene	0.570	U	2.50	0.570	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
1,2-Dichloropropane	0.355	U	2.50	0.355	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
cis-1,3-Dichloropropene	0.270	U	2.50	0.270	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
trans-1,3-Dichloropropene	0.290	U	2.50	0.290	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Ethylbenzene	19.4		2.50	0.510	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
2-Hexanone	0.505	U	5.00	0.505	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Methylene Chloride	2.29	J	5.00	1.10	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
4-Methyl-2-pentanone (MIBK)	0.735	U	5.00	0.735	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Styrene	0.355	U	2.50	0.355	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
1,1,2,2-Tetrachloroethane	0.435	U	2.50	0.435	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Tetrachloroethene	0.355	U	2.50	0.355	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Toluene	58.0		2.50	0.690	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
1,1,1-Trichloroethane	0.370	U	2.50	0.370	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
1,1,2-Trichloroethane	0.365	U	20.0	0.365	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Trichloroethene	0.700	U	2.50	0.700	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Vinyl acetate	0.465	U	5.00	0.465	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Vinyl chloride	0.450	U	5.00	0.450	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
o-Xylene	37.1		2.50	0.565	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
m-Xylene & p-Xylene	87.0		2.50	0.760	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Xylenes, Total	124		2.50	0.565	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Bromodichloromethane	0.330	U	2.50	0.330	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
1,2-Dichloroethene, Total	0.950	U	5.00	0.950	mg/Kg		02/09/15 10:00	02/09/15 13:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		50 - 130				02/09/15 10:00	02/09/15 13:31	1
Dibromofluoromethane	113		68 - 140				02/09/15 10:00	02/09/15 13:31	1
4-Bromofluorobenzene	79		57 - 140				02/09/15 10:00	02/09/15 13:31	1
1,2-Dichloroethane-d4 (Surr)	103		61 - 130				02/09/15 10:00	02/09/15 13:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.602	J	1.00	0.0330	mg/L			02/11/15 13:18	100
Carbon tetrachloride	0.0251	U	0.500	0.0251	mg/L			02/11/15 13:18	100

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Client Sample ID: FT 21S012-2.4.29S

Lab Sample ID: 600-106262-1

Date Collected: 02/04/15 11:35

Matrix: Waste

Date Received: 02/04/15 15:16

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.0136	U	0.500	0.0136	mg/L			02/11/15 13:18	100
Chloroform	0.256	J	0.500	0.0200	mg/L			02/11/15 13:18	100
1,2-Dichloroethane	0.0160	U	0.500	0.0160	mg/L			02/11/15 13:18	100
1,1-Dichloroethene	0.0300	U	0.500	0.0300	mg/L			02/11/15 13:18	100
2-Butanone (MEK)	1.38	J	2.00	0.100	mg/L			02/11/15 13:18	100
Tetrachloroethene	0.0207	J	0.500	0.0189	mg/L			02/11/15 13:18	100
Trichloroethene	0.0317	U	0.500	0.0317	mg/L			02/11/15 13:18	100
Vinyl chloride	0.0300	U	0.500	0.0300	mg/L			02/11/15 13:18	100
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Dibromoformmethane (Surr)		97		70 - 130				02/11/15 13:18	100
Toluene-d8 (Surr)		100		70 - 130				02/11/15 13:18	100
4-Bromofluorobenzene (Surr)		91		70 - 130				02/11/15 13:18	100
1,2-Dichloroethane-d4 (Surr)		103		70 - 130				02/11/15 13:18	100

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	943	540	mg/Kg			02/06/15 12:39	10
Acenaphthylene	550	U	943	550	mg/Kg			02/06/15 12:39	10
Anthracene	592	U	943	592	mg/Kg			02/06/15 12:39	10
Benzidine	2360	U	9430	2360	mg/Kg			02/06/15 12:39	10
Benzo[a]anthracene	592	U	943	592	mg/Kg			02/06/15 12:39	10
Benzo[b]fluoranthene	55.3	U	943	55.3	mg/Kg			02/06/15 12:39	10
Benzo[k]fluoranthene	84.0	U	943	84.0	mg/Kg			02/06/15 12:39	10
Benzo[g,h,i]perylene	501	U	943	501	mg/Kg			02/06/15 12:39	10
Benzo[a]pyrene	529	U	943	529	mg/Kg			02/06/15 12:39	10
Bis(2-chloroethoxy)methane	532	U	943	532	mg/Kg			02/06/15 12:39	10
Bis(2-chloroethyl)ether	94.2	U	943	94.2	mg/Kg			02/06/15 12:39	10
Bis(2-ethylhexyl) phthalate	572	U	943	572	mg/Kg			02/06/15 12:39	10
4-Bromophenyl phenyl ether	571	U	943	571	mg/Kg			02/06/15 12:39	10
Butyl benzyl phthalate	573	U	943	573	mg/Kg			02/06/15 12:39	10
4-Chloroaniline	189	U	943	189	mg/Kg			02/06/15 12:39	10
2-Chloronaphthalene	614	U	943	614	mg/Kg			02/06/15 12:39	10
4-Chlorophenyl phenyl ether	567	U	943	567	mg/Kg			02/06/15 12:39	10
Carbazole	582	U	943	582	mg/Kg			02/06/15 12:39	10
Chrysene	576	U	943	576	mg/Kg			02/06/15 12:39	10
Di-n-butyl phthalate	608	U	943	608	mg/Kg			02/06/15 12:39	10
Dibenz(a,h)anthracene	542	U	943	542	mg/Kg			02/06/15 12:39	10
Dibenzofuran	562	U	943	562	mg/Kg			02/06/15 12:39	10
1,2-Dichlorobenzene	75.1	U	943	75.1	mg/Kg			02/06/15 12:39	10
1,3-Dichlorobenzene	509	U	943	509	mg/Kg			02/06/15 12:39	10
1,4-Dichlorobenzene	65.9	U	943	65.9	mg/Kg			02/06/15 12:39	10
3,3'-Dichlorobenzidine	182	U	1890	182	mg/Kg			02/06/15 12:39	10
Diethyl phthalate	583	U	943	583	mg/Kg			02/06/15 12:39	10
Dimethyl phthalate	571	U	943	571	mg/Kg			02/06/15 12:39	10
2,4-Dinitrotoluene	94.0	U	943	94.0	mg/Kg			02/06/15 12:39	10
2,6-Dinitrotoluene	599	U	943	599	mg/Kg			02/06/15 12:39	10
Di-n-octyl phthalate	610	U	943	610	mg/Kg			02/06/15 12:39	10
Fluoranthene	602	U	943	602	mg/Kg			02/06/15 12:39	10
Fluorene	581	U	943	581	mg/Kg			02/06/15 12:39	10

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Client Sample ID: FT 21S012-2.4.29S

Lab Sample ID: 600-106262-1

Date Collected: 02/04/15 11:35

Matrix: Waste

Date Received: 02/04/15 15:16

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	595	U	943	595	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Hexachlorocyclopentadiene	63.6	U	943	63.6	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Hexachloroethane	85.5	U	943	85.5	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Hexachlorobutadiene	96.9	U	943	96.9	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Indeno[1,2,3-cd]pyrene	517	U	943	517	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Isophorone	554	U	943	554	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2-Methylnaphthalene	540	U	943	540	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Naphthalene	455	J	943	55.1	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2-Nitroaniline	556	U	4570	556	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
3-Nitroaniline	605	U	4570	605	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
4-Nitroaniline	515	U *	4570	515	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Nitrobenzene	135	U	943	135	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
N-Nitrosodimethylamine	273	U	943	273	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
N-Nitrosodiphenylamine	90.1	U	943	90.1	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
N-Nitrosodi-n-propylamine	81.7	U	943	81.7	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Phenanthrene	580	U	943	580	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Pyrene	631	U	943	631	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
1,2,4-Trichlorobenzene	602	U	943	602	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Benzyl alcohol	178	U	943	178	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
4-Chloro-3-methylphenol	549	U	943	549	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2-Chlorophenol	66.6	U	943	66.6	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2-Methylphenol	108	U	943	108	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
3 & 4 Methylphenol	85.9	U	1890	85.9	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2,4-Dichlorophenol	522	U	943	522	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2,4-Dimethylphenol	182	U	943	182	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
4,6-Dinitro-2-methylphenol	590	U	4570	590	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2,4-Dinitrophenol	366	U	4570	366	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2-Nitrophenol	514	U	943	514	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
4-Nitrophenol	514	U	4570	514	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Pentachlorophenol	63.2	U	4570	63.2	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
Phenol	107	U	943	107	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2,4,5-Trichlorophenol	177	U	943	177	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
2,4,6-Trichlorophenol	515	U	943	515	mg/Kg		02/06/15 12:39	02/06/15 16:59	10
bis (2-Chloroisopropyl) ether	98.9	U	943	98.9	mg/Kg		02/06/15 12:39	02/06/15 16:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	0	X	46 - 130		02/06/15 12:39	02/06/15 16:59
2-Fluorophenol	0	X	45 - 130		02/06/15 12:39	02/06/15 16:59
2-Fluorobiphenyl	0	X	42 - 130		02/06/15 12:39	02/06/15 16:59
2,4,6-Tribromophenol	0	X	25 - 130		02/06/15 12:39	02/06/15 16:59
Terphenyl-d14	0	X	51 - 130		02/06/15 12:39	02/06/15 16:59
Phenol-d5 (Surr)	0	X	48 - 130		02/06/15 12:39	02/06/15 16:59

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.178	U	1.00	0.178	mg/L		02/09/15 13:58	02/10/15 10:21	10
2,4-Dinitrotoluene	0.263	U	1.00	0.263	mg/L		02/09/15 13:58	02/10/15 10:21	10
2,4,5-Trichlorophenol	0.271	U	1.00	0.271	mg/L		02/09/15 13:58	02/10/15 10:21	10
2,4,6-Trichlorophenol	0.259	U	1.00	0.259	mg/L		02/09/15 13:58	02/10/15 10:21	10
2-Methylphenol	0.584	J	1.00	0.181	mg/L		02/09/15 13:58	02/10/15 10:21	10

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . . - Houston

Client Sample ID: FT 21S012-2.4.29S

Lab Sample ID: 600-106262-1

Date Collected: 02/04/15 11:35

Matrix: Waste

Date Received: 02/04/15 15:16

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	1.03	J	2.00	0.188	mg/L		02/09/15 13:58	02/10/15 10:21	10
Hexachlorobenzene	0.259	U	1.00	0.259	mg/L		02/09/15 13:58	02/10/15 10:21	10
Hexachlorobutadiene	0.212	U	1.00	0.212	mg/L		02/09/15 13:58	02/10/15 10:21	10
Hexachloroethane	0.220	U	1.00	0.220	mg/L		02/09/15 13:58	02/10/15 10:21	10
Nitrobenzene	0.248	U	1.00	0.248	mg/L		02/09/15 13:58	02/10/15 10:21	10
Pentachlorophenol	0.462	U	5.00	0.462	mg/L		02/09/15 13:58	02/10/15 10:21	10
Pyridine	0.216	U	1.00	0.216	mg/L		02/09/15 13:58	02/10/15 10:21	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Nitrobenzene-d5</i>	0	X	35 - 130	02/09/15 13:58	02/10/15 10:21	10
<i>2-Fluorophenol</i>	0	X	10 - 130	02/09/15 13:58	02/10/15 10:21	10
<i>2-Fluorobiphenyl</i>	0	X	41 - 130	02/09/15 13:58	02/10/15 10:21	10
<i>2,4,6-Tribromophenol</i>	0	X	12 - 138	02/09/15 13:58	02/10/15 10:21	10
<i>Terphenyl-d14</i>	0	X	43 - 130	02/09/15 13:58	02/10/15 10:21	10
<i>Phenol-d5 (Surr)</i>	0	X	10 - 130	02/09/15 13:58	02/10/15 10:21	10

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	6660		500	190	mg/Kg		02/05/15 11:59	02/06/15 09:07	5
>C12-C28	33000		500	203	mg/Kg		02/05/15 11:59	02/06/15 09:07	5
>C28-C35	9660		500	203	mg/Kg		02/05/15 11:59	02/06/15 09:07	5
C6-C35	49300		500	190	mg/Kg		02/05/15 11:59	02/06/15 09:07	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	112		70 - 130	02/05/15 11:59	02/06/15 09:07	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.862	U	1.92	0.862	mg/Kg		02/10/15 13:34	02/10/15 20:23	1
Barium	2.70		1.92	1.53	mg/Kg		02/10/15 13:34	02/10/15 20:23	1
Cadmium	0.0958	U	0.958	0.0958	mg/Kg		02/10/15 13:34	02/10/15 20:23	1
Chromium	0.575	U	0.958	0.575	mg/Kg		02/10/15 13:34	02/10/15 20:23	1
Lead	0.479	U	0.958	0.479	mg/Kg		02/10/15 13:34	02/10/15 20:23	1
Selenium	0.958	U	1.92	0.958	mg/Kg		02/10/15 13:34	02/10/15 20:23	1
Silver	0.479	U	0.958	0.479	mg/Kg		02/10/15 13:34	02/10/15 20:23	1
Sodium	1100		192	95.8	mg/Kg		02/10/15 13:34	02/10/15 20:23	1
Sulfur	708		47.9	19.2	mg/Kg		02/10/15 13:34	02/10/15 20:23	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0820	J	0.100	0.0290	mg/L		02/09/15 12:48	02/09/15 18:50	1
Chromium	0.0750	J B	0.100	0.0155	mg/L		02/09/15 12:48	02/09/15 18:50	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		02/09/15 12:48	02/09/15 18:50	1
Barium	0.628	B	0.200	0.0220	mg/L		02/09/15 12:48	02/10/15 11:42	1
Arsenic	0.0328	U	0.100	0.0328	mg/L		02/09/15 12:48	02/10/15 11:42	1
Silver	0.0130	J	0.100	0.0125	mg/L		02/09/15 12:48	02/09/15 18:50	1
Selenium	0.0417	U	0.400	0.0417	mg/L		02/09/15 12:48	02/10/15 11:42	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0169	B	0.00200	0.000820	mg/L		02/09/15 12:14	02/09/15 15:18	1

TestAmerica Houston

Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Client Sample ID: FT 21S012-2.4.29S

Lab Sample ID: 600-106262-1

Matrix: Waste

Date Collected: 02/04/15 11:35

Date Received: 02/04/15 15:16

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.251	B	0.0170	0.00358	mg/Kg		02/09/15 08:12	02/09/15 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>186		1.00	1.00	Degrees F		02/09/15 07:00	02/09/15 07:00	1
Cyanide, Reactive	0.0853	U	0.249	0.0853	mg/Kg		02/09/15 15:07	02/10/15 12:29	1
Halogens, Extractable Organic	34.5	U	203	34.5	mg/Kg		02/11/15 06:29	02/11/15 13:01	1
Sulfide, Reactive	13.9	U	49.9	13.9	mg/Kg		02/09/15 15:07	02/10/15 11:24	1
pH	6.27		0.0100	0.0100	SU		02/10/15 16:10	02/10/15 16:10	1
Percent Water	100				%		02/11/15 14:30	02/11/15 14:30	1
Total Suspended Solids	2430		100	100	mg/L		02/05/15 08:33	02/05/15 08:33	1

Definitions/Glossary

Client: CB&I Federal Services LLC
Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Surrogate Summary

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . .– Houston

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (50-130)	DBFM (68-140)	BFB (57-140)	12DCE (61-130)
600-106262-1	FT 21S012-2.4.29S	100	113	79	103
LCS 600-155607/1-A	Lab Control Sample	86	101	98	76
LCSD 600-155607/2-A	Lab Control Sample Dup	96	108	97	88
MB 600-155607/3-A	Method Blank	85	93	96	81

Surrogate Legend

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane

BFB = 4-Bromofluorobenzene

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DBFM (70-130)	TOL (70-130)	BFB (70-130)	12DCE (70-130)
LCS 560-112666/3	Lab Control Sample	99	102	101	101
MB 560-112666/8	Method Blank	95	98	104	102

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DBFM (70-130)	TOL (70-130)	BFB (70-130)	12DCE (70-130)
600-106262-1	FT 21S012-2.4.29S	97	100	91	103
LB3 560-112647/1-A	Method Blank	96	99	105	100

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (46-130)	2FP (45-130)	FBP (42-130)	TBP (25-130)	TPH (51-130)	PHL (48-130)
600-106262-1	FT 21S012-2.4.29S	0 X	0 X	0 X	0 X	0 X	0 X
LCS 600-155533/2-A	Lab Control Sample	80	85	86	101	97	81
MB 600-155533/1-A	Method Blank	89	89	91	97	100	83

TestAmerica Houston

Surrogate Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Surrogate Legend

NBZ = Nitrobenzene-d5

2FP = 2-Fluorophenol

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

TPH = Terphenyl-d14

PHL = Phenol-d5 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (35-130)	2FP (10-130)	FBP (41-130)	TBP (12-138)	TPH (43-130)	PHL (10-130)
LCS 600-155586/2-A	Lab Control Sample	70	68	70	79	88	67
MB 600-155586/1-A	Method Blank	75	72	77	69	90	69

Surrogate Legend

NBZ = Nitrobenzene-d5

2FP = 2-Fluorophenol

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

TPH = Terphenyl-d14

PHL = Phenol-d5 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	NBZ (35-130)	2FP (10-130)	FBP (41-130)	TBP (12-138)	TPH (43-130)	PHL (10-130)
600-106262-1	FT 21S012-2.4.29S	0 X	0 X	0 X	0 X	0 X	0 X
600-106262-1 MS	FT 21S012-2.4.29S	0 X	0 X	0 X	0 X	0 X	0 X
LB 600-155568/1-E	Method Blank	85	71	86	72	95	55

Surrogate Legend

NBZ = Nitrobenzene-d5

2FP = 2-Fluorophenol

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

TPH = Terphenyl-d14

PHL = Phenol-d5 (Surr)

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Waste

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (70-130)					
600-106262-1 - DL	FT 21S012-2.4.29S	112					
LCS 600-155440/2-A	Lab Control Sample	89					
MB 600-155440/1-A	Method Blank	94					

Surrogate Legend

OTPH = o-Terphenyl

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 560-112666/8

Matrix: Waste

Analysis Batch: 112666

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000330	U	0.0100	0.000330	mg/L			02/11/15 12:02	1
Carbon tetrachloride	0.000251	U	0.00500	0.000251	mg/L			02/11/15 12:02	1
Chlorobenzene	0.000136	U	0.00500	0.000136	mg/L			02/11/15 12:02	1
Chloroform	0.000200	U	0.00500	0.000200	mg/L			02/11/15 12:02	1
1,2-Dichloroethane	0.000160	U	0.00500	0.000160	mg/L			02/11/15 12:02	1
1,1-Dichloroethene	0.000300	U	0.00500	0.000300	mg/L			02/11/15 12:02	1
2-Butanone (MEK)	0.00100	U	0.0200	0.00100	mg/L			02/11/15 12:02	1
Tetrachloroethene	0.000189	U	0.00500	0.000189	mg/L			02/11/15 12:02	1
Trichloroethene	0.000317	U	0.00500	0.000317	mg/L			02/11/15 12:02	1
Vinyl chloride	0.000300	U	0.00500	0.000300	mg/L			02/11/15 12:02	1

MB MB

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	95		70 - 130		02/11/15 12:02	1
Toluene-d8 (Surr)	98		70 - 130		02/11/15 12:02	1
4-Bromofluorobenzene (Surr)	104		70 - 130		02/11/15 12:02	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		02/11/15 12:02	1

Lab Sample ID: LCS 560-112666/3

Matrix: Waste

Analysis Batch: 112666

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS		Unit	D	%Rec	Limits
	Added	Result	Result	Qualifier				
Benzene	0.0250	0.02548			mg/L		102	70 - 130
Carbon tetrachloride	0.0250	0.02448			mg/L		98	65 - 135
Chlorobenzene	0.0250	0.02530			mg/L		101	70 - 130
Chloroform	0.0250	0.02464			mg/L		99	70 - 130
1,2-Dichloroethane	0.0250	0.02476			mg/L		99	68 - 130
1,1-Dichloroethene	0.0250	0.02226			mg/L		89	67 - 130
2-Butanone (MEK)	0.0250	0.02616			mg/L		105	50 - 158
Tetrachloroethene	0.0250	0.02488			mg/L		100	60 - 130
Trichloroethene	0.0250	0.02536			mg/L		101	70 - 130
Vinyl chloride	0.0250	0.02195			mg/L		88	59 - 139

LCS LCS

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		70 - 130
Toluene-d8 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130

Lab Sample ID: MB 600-155607/3-A

Matrix: Waste

Analysis Batch: 155609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155607

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	0.208	U	1.25	0.208	mg/Kg		02/09/15 10:00	02/09/15 13:01	1
Benzene	0.0788	U	0.625	0.0788	mg/Kg		02/09/15 10:00	02/09/15 13:01	1
Chlorobromomethane	0.223	U	0.625	0.223	mg/Kg		02/09/15 10:00	02/09/15 13:01	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-155607/3-A

Matrix: Waste

Analysis Batch: 155609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155607

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	MB	MB									
Bromoform	0.171	U	0.171	U	0.625	0.171	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	1
Bromomethane	0.104	U			1.25	0.104	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	2
2-Butanone (MEK)	0.238	U			1.25	0.238	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	3
Carbon disulfide	0.0688	U			1.25	0.0688	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	4
Carbon tetrachloride	0.141	U			0.625	0.141	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	5
Dibromochloromethane	0.118	U			0.625	0.118	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	6
Chlorobenzene	0.120	U			0.625	0.120	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	7
Chloroethane	0.175	U			1.25	0.175	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	8
Chloroform	0.0825	U			0.625	0.0825	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	9
Chloromethane	0.208	U			1.25	0.208	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	10
1,1-Dichloroethane	0.109	U			0.625	0.109	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	11
1,2-Dichloroethane	0.113	U			0.625	0.113	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	12
1,1-Dichloroethene	0.153	U			0.625	0.153	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	13
cis-1,2-Dichloroethene	0.104	U			0.625	0.104	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	14
trans-1,2-Dichloroethene	0.143	U			0.625	0.143	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	15
1,2-Dichloropropane	0.0888	U			0.625	0.0888	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	16
cis-1,3-Dichloropropene	0.0675	U			0.625	0.0675	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	17
trans-1,3-Dichloropropene	0.0725	U			0.625	0.0725	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	18
Ethylbenzene	0.128	U			0.625	0.128	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	19
2-Hexanone	0.126	U			1.25	0.126	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	20
Methylene Chloride	0.274	U			1.25	0.274	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	21
4-Methyl-2-pentanone (MIBK)	0.184	U			1.25	0.184	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	22
Styrene	0.0888	U			0.625	0.0888	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	23
1,1,2,2-Tetrachloroethane	0.109	U			0.625	0.109	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	24
Tetrachloroethene	0.0888	U			0.625	0.0888	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	25
Toluene	0.173	U			0.625	0.173	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	26
1,1,1-Trichloroethane	0.0925	U			0.625	0.0925	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	27
1,1,2-Trichloroethane	0.0913	U			5.00	0.0913	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	28
Trichloroethene	0.175	U			0.625	0.175	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	29
Vinyl acetate	0.116	U			1.25	0.116	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	30
Vinyl chloride	0.113	U			1.25	0.113	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	31
o-Xylene	0.141	U			0.625	0.141	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	32
m-Xylene & p-Xylene	0.190	U			0.625	0.190	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	33
Xylenes, Total	0.141	U			0.625	0.141	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	34
Bromodichloromethane	0.0825	U			0.625	0.0825	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	35
1,2-Dichloroethene, Total	0.238	U			1.25	0.238	mg/Kg	02/09/15 10:00	02/09/15 13:01	1	36

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	MB	MB						
Toluene-d8 (Surr)	85		85		50 - 130	02/09/15 10:00	02/09/15 13:01	1
Dibromofluoromethane	93		93		68 - 140	02/09/15 10:00	02/09/15 13:01	1
4-Bromofluorobenzene	96		96		57 - 140	02/09/15 10:00	02/09/15 13:01	1
1,2-Dichloroethane-d4 (Surr)	81		81		61 - 130	02/09/15 10:00	02/09/15 13:01	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-155607/1-A

Matrix: Waste

Analysis Batch: 155609

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155607

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Acetone	12.5	14.70		mg/Kg		118	13 - 150
Benzene	6.25	6.047		mg/Kg		97	70 - 131
Chlorobromomethane	6.25	6.476		mg/Kg		104	70 - 132
Bromoform	6.25	5.417		mg/Kg		87	43 - 150
Bromomethane	6.25	11.39 *		mg/Kg		182	37 - 147
2-Butanone (MEK)	12.5	12.10		mg/Kg		97	33 - 150
Carbon disulfide	6.25	5.367		mg/Kg		86	51 - 141
Carbon tetrachloride	6.25	6.373		mg/Kg		102	58 - 130
Dibromochloromethane	6.25	5.309		mg/Kg		85	65 - 134
Chlorobenzene	6.25	5.058		mg/Kg		81	63 - 131
Chloroethane	6.25	6.730		mg/Kg		108	40 - 150
Chloroform	6.25	6.092		mg/Kg		97	69 - 130
Chloromethane	6.25	4.603		mg/Kg		74	44 - 141
1,1-Dichloroethane	6.25	6.173		mg/Kg		99	63 - 140
1,2-Dichloroethane	6.25	5.433		mg/Kg		87	58 - 137
1,1-Dichloroethene	6.25	5.605		mg/Kg		90	62 - 142
cis-1,2-Dichloroethene	6.25	6.198		mg/Kg		99	70 - 130
trans-1,2-Dichloroethene	6.25	6.413		mg/Kg		103	69 - 130
1,2-Dichloropropane	6.25	6.255		mg/Kg		100	70 - 130
cis-1,3-Dichloropropene	6.25	5.148		mg/Kg		82	65 - 130
trans-1,3-Dichloropropene	6.25	5.459		mg/Kg		87	70 - 130
Ethylbenzene	6.25	4.969		mg/Kg		79	66 - 130
2-Hexanone	12.5	11.82		mg/Kg		95	35 - 150
Methylene Chloride	6.25	5.427		mg/Kg		87	61 - 150
4-Methyl-2-pentanone (MIBK)	12.5	13.12		mg/Kg		105	21 - 150
Styrene	6.25	5.418		mg/Kg		87	65 - 133
1,1,2,2-Tetrachloroethane	6.25	6.217		mg/Kg		99	61 - 138
Tetrachloroethene	6.25	4.678		mg/Kg		75	43 - 143
Toluene	6.25	5.142		mg/Kg		82	67 - 130
1,1,1-Trichloroethane	6.25	6.484		mg/Kg		104	59 - 130
1,1,2-Trichloroethane	6.25	5.090		mg/Kg		81	67 - 134
Trichloroethene	6.25	6.538		mg/Kg		105	63 - 135
Vinyl acetate	12.5	12.54		mg/Kg		100	40 - 150
Vinyl chloride	6.25	5.593		mg/Kg		89	40 - 148
o-Xylene	6.25	4.640		mg/Kg		74	62 - 130
m-Xylene & p-Xylene	6.25	4.979		mg/Kg		80	64 - 130
Xylenes, Total	12.5	9.619		mg/Kg		77	63 - 130
Bromodichloromethane	6.25	6.237		mg/Kg		100	67 - 138
1,2-Dichloroethene, Total	12.5	12.61		mg/Kg		101	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	86		50 - 130
Dibromofluoromethane	101		68 - 140
4-Bromofluorobenzene	98		57 - 140
1,2-Dichloroethane-d4 (Surr)	76		61 - 130

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 600-155607/2-A

Matrix: Waste

Analysis Batch: 155609

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 155607

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Acetone	12.5	17.98		mg/Kg	144	13 - 150	20	30		
Benzene	6.25	6.650		mg/Kg	106	70 - 131	10	30		
Chlorobromomethane	6.25	6.949		mg/Kg	111	70 - 132	7	30		
Bromoform	6.25	6.479		mg/Kg	104	43 - 150	18	30		
Bromomethane	6.25	10.44 *		mg/Kg	167	37 - 147	9	30		
2-Butanone (MEK)	12.5	14.58		mg/Kg	117	33 - 150	19	30		
Carbon disulfide	6.25	6.163		mg/Kg	99	51 - 141	14	30		
Carbon tetrachloride	6.25	7.715		mg/Kg	123	58 - 130	19	30		
Dibromochloromethane	6.25	6.087		mg/Kg	97	65 - 134	14	30		
Chlorobenzene	6.25	6.348		mg/Kg	102	63 - 131	23	30		
Chloroethane	6.25	7.048		mg/Kg	113	40 - 150	5	30		
Chloroform	6.25	6.735		mg/Kg	108	69 - 130	10	30		
Chloromethane	6.25	4.483		mg/Kg	72	44 - 141	3	30		
1,1-Dichloroethane	6.25	6.428		mg/Kg	103	63 - 140	4	30		
1,2-Dichloroethane	6.25	6.410		mg/Kg	103	58 - 137	16	30		
1,1-Dichloroethene	6.25	6.400		mg/Kg	102	62 - 142	13	30		
cis-1,2-Dichloroethene	6.25	7.204		mg/Kg	115	70 - 130	15	30		
trans-1,2-Dichloroethene	6.25	7.024		mg/Kg	112	69 - 130	9	30		
1,2-Dichloropropane	6.25	7.006		mg/Kg	112	70 - 130	11	30		
cis-1,3-Dichloropropene	6.25	6.157		mg/Kg	99	65 - 130	18	30		
trans-1,3-Dichloropropene	6.25	6.587		mg/Kg	105	70 - 130	19	30		
Ethylbenzene	6.25	5.434		mg/Kg	87	66 - 130	9	30		
2-Hexanone	12.5	14.24		mg/Kg	114	35 - 150	19	30		
Methylene Chloride	6.25	5.832		mg/Kg	93	61 - 150	7	30		
4-Methyl-2-pentanone (MIBK)	12.5	16.52		mg/Kg	132	21 - 150	23	30		
Styrene	6.25	6.050		mg/Kg	97	65 - 133	11	30		
1,1,2,2-Tetrachloroethane	6.25	6.652		mg/Kg	106	61 - 138	7	30		
Tetrachloroethene	6.25	5.631		mg/Kg	90	43 - 143	18	30		
Toluene	6.25	5.997		mg/Kg	96	67 - 130	15	30		
1,1,1-Trichloroethane	6.25	7.051		mg/Kg	113	59 - 130	8	30		
1,1,2-Trichloroethane	6.25	6.202		mg/Kg	99	67 - 134	20	30		
Trichloroethene	6.25	7.152		mg/Kg	114	63 - 135	9	30		
Vinyl acetate	12.5	14.17		mg/Kg	113	40 - 150	12	30		
Vinyl chloride	6.25	5.692		mg/Kg	91	40 - 148	2	30		
o-Xylene	6.25	5.705		mg/Kg	91	62 - 130	21	30		
m-Xylene & p-Xylene	6.25	5.998		mg/Kg	96	64 - 130	19	30		
Xylenes, Total	12.5	11.70		mg/Kg	94	63 - 130	20	30		
Bromodichloromethane	6.25	7.283		mg/Kg	117	67 - 138	15	30		
1,2-Dichloroethene, Total	12.5	14.23		mg/Kg	114	70 - 130	12	30		

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		50 - 130
Dibromofluoromethane	108		68 - 140
4-Bromofluorobenzene	97		57 - 140
1,2-Dichloroethane-d4 (Surr)	88		61 - 130

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 560-112647/1-A

Matrix: Waste

Analysis Batch: 112666

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB3		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.00165	U	0.0500	0.00165	mg/L			02/11/15 11:37	5
Carbon tetrachloride	0.00126	U	0.0250	0.00126	mg/L			02/11/15 11:37	5
Chlorobenzene	0.000680	U	0.0250	0.000680	mg/L			02/11/15 11:37	5
Chloroform	0.00100	U	0.0250	0.00100	mg/L			02/11/15 11:37	5
1,2-Dichloroethane	0.000800	U	0.0250	0.000800	mg/L			02/11/15 11:37	5
1,1-Dichloroethene	0.00150	U	0.0250	0.00150	mg/L			02/11/15 11:37	5
2-Butanone (MEK)	0.00500	U	0.100	0.00500	mg/L			02/11/15 11:37	5
Tetrachloroethene	0.000945	U	0.0250	0.000945	mg/L			02/11/15 11:37	5
Trichloroethene	0.00159	U	0.0250	0.00159	mg/L			02/11/15 11:37	5
Vinyl chloride	0.00150	U	0.0250	0.00150	mg/L			02/11/15 11:37	5
LB3		LB3							
Surrogate	%Recovery	Qualifier	Limits			Prepared		Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		70 - 130					02/11/15 11:37	5
Toluene-d8 (Surr)	99		70 - 130					02/11/15 11:37	5
4-Bromofluorobenzene (Surr)	105		70 - 130					02/11/15 11:37	5
1,2-Dichloroethane-d4 (Surr)	100		70 - 130					02/11/15 11:37	5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 600-155533/1-A

Matrix: Waste

Analysis Batch: 155494

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155533

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	5.67	U	9.90	5.67	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Acenaphthylene	5.78	U	9.90	5.78	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Anthracene	6.22	U	9.90	6.22	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Benzidine	24.8	U	99.0	24.8	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Benzo[a]anthracene	6.22	U	9.90	6.22	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Benzo[b]fluoranthene	0.580	U	9.90	0.580	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Benzo[k]fluoranthene	0.882	U	9.90	0.882	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Benzo[g,h,i]perylene	5.26	U	9.90	5.26	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Benzo[a]pyrene	5.55	U	9.90	5.55	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Bis(2-chloroethoxy)methane	5.59	U	9.90	5.59	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Bis(2-chloroethyl)ether	0.989	U	9.90	0.989	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Bis(2-ethylhexyl) phthalate	6.00	U	9.90	6.00	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
4-Bromophenyl phenyl ether	6.00	U	9.90	6.00	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Butyl benzyl phthalate	6.02	U	9.90	6.02	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
4-Chloroaniline	1.98	U	9.90	1.98	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
2-Chloronaphthalene	6.44	U	9.90	6.44	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
4-Chlorophenyl phenyl ether	5.95	U	9.90	5.95	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Carbazole	6.11	U	9.90	6.11	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Chrysene	6.05	U	9.90	6.05	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Di-n-butyl phthalate	6.39	U	9.90	6.39	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Dibenz(a,h)anthracene	5.69	U	9.90	5.69	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
Dibenzofuran	5.90	U	9.90	5.90	mg/Kg		02/06/15 12:39	02/06/15 15:57	1
1,2-Dichlorobenzene	0.789	U	9.90	0.789	mg/Kg		02/06/15 12:39	02/06/15 15:57	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-155533/1-A

Matrix: Waste

Analysis Batch: 155494

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155533

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,3-Dichlorobenzene	5.34	U	9.90		5.34	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
1,4-Dichlorobenzene	0.692	U	9.90		0.692	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
3,3'-Dichlorobenzidine	1.91	U	19.8		1.91	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Diethyl phthalate	6.12	U	9.90		6.12	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Dimethyl phthalate	5.99	U	9.90		5.99	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2,4-Dinitrotoluene	0.987	U	9.90		0.987	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2,6-Dinitrotoluene	6.29	U	9.90		6.29	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Di-n-octyl phthalate	6.41	U	9.90		6.41	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Fluoranthene	6.32	U	9.90		6.32	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Fluorene	6.10	U	9.90		6.10	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Hexachlorobenzene	6.24	U	9.90		6.24	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Hexachlorocyclopentadiene	0.668	U	9.90		0.668	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Hexachloroethane	0.897	U	9.90		0.897	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Hexachlorobutadiene	1.02	U	9.90		1.02	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Indeno[1,2,3-cd]pyrene	5.43	U	9.90		5.43	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Isophorone	5.82	U	9.90		5.82	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2-Methylnaphthalene	5.67	U	9.90		5.67	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Naphthalene	0.579	U	9.90		0.579	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2-Nitroaniline	5.84	U	48.0		5.84	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
3-Nitroaniline	6.35	U	48.0		6.35	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
4-Nitroaniline	5.41	U	48.0		5.41	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Nitrobenzene	1.42	U	9.90		1.42	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
N-Nitrosodimethylamine	2.86	U	9.90		2.86	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
N-Nitrosodiphenylamine	0.946	U	9.90		0.946	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
N-Nitrosodi-n-propylamine	0.858	U	9.90		0.858	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Phenanthrene	6.09	U	9.90		6.09	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Pyrene	6.63	U	9.90		6.63	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
1,2,4-Trichlorobenzene	6.32	U	9.90		6.32	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Benzyl alcohol	1.87	U	9.90		1.87	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
4-Chloro-3-methylphenol	5.76	U	9.90		5.76	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2-Chlorophenol	0.699	U	9.90		0.699	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2-Methylphenol	1.14	U	9.90		1.14	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
3 & 4 Methylphenol	0.902	U	19.8		0.902	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2,4-Dichlorophenol	5.48	U	9.90		5.48	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2,4-Dimethylphenol	1.91	U	9.90		1.91	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
4,6-Dinitro-2-methylphenol	6.20	U	48.0		6.20	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2,4-Dinitrophenol	3.84	U	48.0		3.84	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2-Nitrophenol	5.40	U	9.90		5.40	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
4-Nitrophenol	5.40	U	48.0		5.40	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Pentachlorophenol	0.664	U	48.0		0.664	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
Phenol	1.12	U	9.90		1.12	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2,4,5-Trichlorophenol	1.86	U	9.90		1.86	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
2,4,6-Trichlorophenol	5.40	U	9.90		5.40	mg/Kg		02/06/15 12:39	02/06/15 15:57		1
bis (2-Chloroisopropyl) ether	1.04	U	9.90		1.04	mg/Kg		02/06/15 12:39	02/06/15 15:57		1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrobenzene-d5	89		89		46 - 130	02/06/15 12:39	02/06/15 15:57	1
2-Fluorophenol	89				45 - 130	02/06/15 12:39	02/06/15 15:57	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-155533/1-A

Matrix: Waste

Analysis Batch: 155494

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155533

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl		91			42 - 130	02/06/15 12:39	02/06/15 15:57	1
2,4,6-Tribromophenol		97			25 - 130	02/06/15 12:39	02/06/15 15:57	1
Terphenyl-d14		100			51 - 130	02/06/15 12:39	02/06/15 15:57	1
Phenol-d5 (Surr)		83			48 - 130	02/06/15 12:39	02/06/15 15:57	1

Lab Sample ID: LCS 600-155533/2-A

Matrix: Waste

Analysis Batch: 155494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155533

Analyte	Spike Added	MB	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
			Result	Qualifier					
Acenaphthene	47.6		47.78		mg/Kg		100	60 - 130	
Acenaphthylene	47.6		44.03		mg/Kg		92	61 - 130	
Anthracene	47.6		44.12		mg/Kg		93	69 - 130	
Benzidine	95.2		23.6	U	mg/Kg		22	10 - 150	
Benzo[a]anthracene	47.6		47.79		mg/Kg		100	70 - 130	
Benzo[b]fluoranthene	47.6		43.10		mg/Kg		91	61 - 130	
Benzo[k]fluoranthene	47.6		45.97		mg/Kg		97	70 - 130	
Benzo[g,h,i]perylene	47.6		44.11		mg/Kg		93	56 - 130	
Benzo[a]pyrene	47.6		43.19		mg/Kg		91	70 - 130	
Bis(2-chloroethoxy)methane	47.6		40.88		mg/Kg		86	58 - 130	
Bis(2-chloroethyl)ether	47.6		46.09		mg/Kg		97	53 - 130	
Bis(2-ethylhexyl) phthalate	47.6		50.21		mg/Kg		105	57 - 130	
4-Bromophenyl phenyl ether	47.6		40.02		mg/Kg		84	66 - 130	
Butyl benzyl phthalate	47.6		48.65		mg/Kg		102	57 - 130	
4-Chloroaniline	47.6		33.66		mg/Kg		71	63 - 130	
2-Chloronaphthalene	47.6		41.69		mg/Kg		88	60 - 130	
4-Chlorophenyl phenyl ether	47.6		45.49		mg/Kg		96	67 - 130	
Carbazole	47.6		43.47		mg/Kg		91	61 - 130	
Chrysene	47.6		47.25		mg/Kg		99	67 - 130	
Di-n-butyl phthalate	47.6		43.36		mg/Kg		91	61 - 130	
Dibenz(a,h)anthracene	47.6		40.63		mg/Kg		85	60 - 130	
Dibenzo[furan]	47.6		46.60		mg/Kg		98	66 - 130	
1,2-Dichlorobenzene	47.6		41.26		mg/Kg		87	59 - 130	
1,3-Dichlorobenzene	47.6		41.12		mg/Kg		86	58 - 130	
1,4-Dichlorobenzene	47.6		41.23		mg/Kg		87	59 - 130	
3,3'-Dichlorobenzidine	47.6		43.13		mg/Kg		91	64 - 130	
Diethyl phthalate	47.6		47.44		mg/Kg		100	62 - 130	
Dimethyl phthalate	47.6		45.85		mg/Kg		96	66 - 130	
2,4-Dinitrotoluene	47.6		47.53		mg/Kg		100	66 - 130	
2,6-Dinitrotoluene	47.6		44.42		mg/Kg		93	65 - 130	
Di-n-octyl phthalate	47.6		49.47		mg/Kg		104	58 - 130	
Fluoranthene	47.6		44.48		mg/Kg		93	68 - 130	
Fluorene	47.6		48.21		mg/Kg		101	67 - 130	
Hexachlorobenzene	47.6		43.49		mg/Kg		91	64 - 130	
Hexachlorocyclopentadiene	47.6		42.67		mg/Kg		90	10 - 130	
Hexachloroethane	47.6		42.26		mg/Kg		89	49 - 130	
Hexachlorobutadiene	47.6		41.03		mg/Kg		86	52 - 130	
Indeno[1,2,3-cd]pyrene	47.6		45.65		mg/Kg		96	49 - 130	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . . - Houston

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 600-155533/2-A

Matrix: Waste

Analysis Batch: 155494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155533

Analyte	Spike	LCS		Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Isophorone	47.6	38.30		mg/Kg	80	57 - 130	
2-Methylnaphthalene	47.6	42.88		mg/Kg	90	66 - 130	
Naphthalene	47.6	41.82		mg/Kg	88	63 - 130	
2-Nitroaniline	47.6	44.89	J	mg/Kg	94	56 - 132	
3-Nitroaniline	47.6	48.86		mg/Kg	103	65 - 130	
4-Nitroaniline	47.6	79.40	*	mg/Kg	167	59 - 133	
Nitrobenzene	47.6	38.17		mg/Kg	80	41 - 140	
N-Nitrosodimethylamine	47.6	39.88		mg/Kg	84	53 - 139	
N-Nitrosodiphenylamine	47.6	42.60		mg/Kg	89	70 - 130	
N-Nitrosodi-n-propylamine	47.6	42.10		mg/Kg	88	54 - 142	
Phenanthrene	47.6	46.69		mg/Kg	98	68 - 130	
Pyrene	47.6	45.33		mg/Kg	95	64 - 130	
1,2,4-Trichlorobenzene	47.6	40.79		mg/Kg	86	59 - 130	
Benzyl alcohol	47.6	51.26		mg/Kg	108	58 - 130	
4-Chloro-3-methylphenol	47.6	38.75		mg/Kg	81	62 - 130	
2-Chlorophenol	47.6	43.57		mg/Kg	92	60 - 130	
2-Methylphenol	47.6	44.25		mg/Kg	93	64 - 130	
3 & 4 Methylphenol	47.6	43.83		mg/Kg	92	65 - 130	
2,4-Dichlorophenol	47.6	40.96		mg/Kg	86	66 - 130	
2,4-Dimethylphenol	47.6	43.74		mg/Kg	92	56 - 130	
4,6-Dinitro-2-methylphenol	95.2	88.82		mg/Kg	93	29 - 132	
2,4-Dinitrophenol	95.2	95.48		mg/Kg	100	10 - 147	
2-Nitrophenol	47.6	41.16		mg/Kg	86	63 - 130	
4-Nitrophenol	95.2	106.6		mg/Kg	112	23 - 137	
Pentachlorophenol	95.2	89.15		mg/Kg	94	27 - 130	
Phenol	47.6	40.77		mg/Kg	86	61 - 130	
2,4,5-Trichlorophenol	47.6	53.35		mg/Kg	112	58 - 130	
2,4,6-Trichlorophenol	47.6	46.41		mg/Kg	97	60 - 130	
bis (2-Chloroisopropyl) ether	47.6	38.54		mg/Kg	81	41 - 130	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	80		46 - 130
2-Fluorophenol	85		45 - 130
2-Fluorobiphenyl	86		42 - 130
2,4,6-Tribromophenol	101		25 - 130
Terphenyl-d14	97		51 - 130
Phenol-d5 (Surr)	81		48 - 130

Lab Sample ID: MB 600-155586/1-A

Client Sample ID: Method Blank

Matrix: Waste

Prep Type: Total/NA

Analysis Batch: 155645

Prep Batch: 155586

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyridine	0.00216	U	0.0100	0.00216	mg/L		02/09/15 06:48	02/09/15 18:57	1
1,4-Dichlorobenzene	0.00178	U	0.0100	0.00178	mg/L		02/09/15 06:48	02/09/15 18:57	1
2,4-Dinitrotoluene	0.00263	U	0.0100	0.00263	mg/L		02/09/15 06:48	02/09/15 18:57	1
Hexachlorobenzene	0.00259	U	0.0100	0.00259	mg/L		02/09/15 06:48	02/09/15 18:57	1
Hexachloroethane	0.00220	U	0.0100	0.00220	mg/L		02/09/15 06:48	02/09/15 18:57	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-155586/1-A

Matrix: Waste

Analysis Batch: 155645

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155586

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	0.00212	U	0.00212	mg/L	0.0100	0.00212	02/09/15 06:48	02/09/15 18:57	1		
Nitrobenzene	0.00248	U	0.00248	mg/L	0.0100	0.00248	02/09/15 06:48	02/09/15 18:57	1		
2-Methylphenol	0.00181	U	0.00181	mg/L	0.0100	0.00181	02/09/15 06:48	02/09/15 18:57	1		
3 & 4 Methylphenol	0.00188	U	0.00188	mg/L	0.0200	0.00188	02/09/15 06:48	02/09/15 18:57	1		
Pentachlorophenol	0.00462	U	0.00462	mg/L	0.0500	0.00462	02/09/15 06:48	02/09/15 18:57	1		
2,4,5-Trichlorophenol	0.00271	U	0.00271	mg/L	0.0100	0.00271	02/09/15 06:48	02/09/15 18:57	1		
2,4,6-Trichlorophenol	0.00259	U	0.00259	mg/L	0.0100	0.00259	02/09/15 06:48	02/09/15 18:57	1		

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrobenzene-d5	75		35 - 130			02/09/15 06:48	02/09/15 18:57	1
2-Fluorophenol	72		10 - 130			02/09/15 06:48	02/09/15 18:57	1
2-Fluorobiphenyl	77		41 - 130			02/09/15 06:48	02/09/15 18:57	1
2,4,6-Tribromophenol	69		12 - 138			02/09/15 06:48	02/09/15 18:57	1
Terphenyl-d14	90		43 - 130			02/09/15 06:48	02/09/15 18:57	1
Phenol-d5 (Surr)	69		10 - 130			02/09/15 06:48	02/09/15 18:57	1

Lab Sample ID: LCS 600-155586/2-A

Matrix: Waste

Analysis Batch: 155645

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155586

Analyte	Spike	LCS	LCS	Added	Result	Qualifier	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier								
Pyridine	0.0500	0.03249		0.0500	mg/L		65	10 - 130			
1,4-Dichlorobenzene	0.0500	0.03497		0.0500	mg/L		70	57 - 130			
2,4-Dinitrotoluene	0.0500	0.04145		0.0500	mg/L		83	60 - 130			
Hexachlorobenzene	0.0500	0.04094		0.0500	mg/L		82	61 - 130			
Hexachloroethane	0.0500	0.03458		0.0500	mg/L		69	52 - 130			
Hexachlorobutadiene	0.0500	0.03491		0.0500	mg/L		70	52 - 130			
Nitrobenzene	0.0500	0.03610		0.0500	mg/L		72	55 - 130			
2-Methylphenol	0.0500	0.03534		0.0500	mg/L		71	39 - 130			
3 & 4 Methylphenol	0.0500	0.03584		0.0500	mg/L		72	29 - 130			
Pentachlorophenol	0.100	0.07487		0.100	mg/L		75	29 - 141			
2,4,5-Trichlorophenol	0.0500	0.04051		0.0500	mg/L		81	51 - 130			
2,4,6-Trichlorophenol	0.0500	0.03781		0.0500	mg/L		76	49 - 130			

Surrogate	LCS	LCS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Nitrobenzene-d5	70		35 - 130					
2-Fluorophenol	68		10 - 130					
2-Fluorobiphenyl	70		41 - 130					
2,4,6-Tribromophenol	79		12 - 138					
Terphenyl-d14	88		43 - 130					
Phenol-d5 (Surr)	67		10 - 130					

Lab Sample ID: LB 600-155568/1-E

Matrix: Waste

Analysis Batch: 155674

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 155568

Analyte	LB	LB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							Prepared	Analyzed	Dil Fac
Pyridine	0.0108	U	0.0500		0.0108	0.0108	mg/L	02/09/15 13:48	02/10/15 08:45	1	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 600-155568/1-E

Client Sample ID: Method Blank

Matrix: Waste

Prep Type: TCLP

Analysis Batch: 155674

Prep Batch: 155586

Analyte	LB	LB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
1,4-Dichlorobenzene	0.00890	U	0.0500		0.00890	mg/L		02/09/15 13:48	02/10/15 08:45		1
2,4-Dinitrotoluene	0.0132	U	0.0500		0.0132	mg/L		02/09/15 13:48	02/10/15 08:45		1
Hexachlorobenzene	0.0130	U	0.0500		0.0130	mg/L		02/09/15 13:48	02/10/15 08:45		1
Hexachloroethane	0.0110	U	0.0500		0.0110	mg/L		02/09/15 13:48	02/10/15 08:45		1
Hexachlorobutadiene	0.0106	U	0.0500		0.0106	mg/L		02/09/15 13:48	02/10/15 08:45		1
Nitrobenzene	0.0124	U	0.0500		0.0124	mg/L		02/09/15 13:48	02/10/15 08:45		1
2-Methylphenol	0.00905	U	0.0500		0.00905	mg/L		02/09/15 13:48	02/10/15 08:45		1
3 & 4 Methylphenol	0.00940	U	0.100		0.00940	mg/L		02/09/15 13:48	02/10/15 08:45		1
Pentachlorophenol	0.0231	U	0.250		0.0231	mg/L		02/09/15 13:48	02/10/15 08:45		1
2,4,5-Trichlorophenol	0.0136	U	0.0500		0.0136	mg/L		02/09/15 13:48	02/10/15 08:45		1
2,4,6-Trichlorophenol	0.0129	U	0.0500		0.0129	mg/L		02/09/15 13:48	02/10/15 08:45		1
Surrogate	LB	LB	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Nitrobenzene-d5	85		35 - 130						02/09/15 13:48	02/10/15 08:45	
2-Fluorophenol	71		10 - 130						02/09/15 13:48	02/10/15 08:45	
2-Fluorobiphenyl	86		41 - 130						02/09/15 13:48	02/10/15 08:45	
2,4,6-Tribromophenol	72		12 - 138						02/09/15 13:48	02/10/15 08:45	
Terphenyl-d14	95		43 - 130						02/09/15 13:48	02/10/15 08:45	
Phenol-d5 (Surr)	55		10 - 130						02/09/15 13:48	02/10/15 08:45	

Lab Sample ID: 600-106262-1 MS

Client Sample ID: FT 21S012-2.4.29S

Matrix: Waste

Prep Type: TCLP

Analysis Batch: 155674

Prep Batch: 155586

Analyte	Sample	Sample	Spike	MS		MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier	Unit				
Pyridine	0.216	U	0.250	0.216	U F1	mg/L	0	10 - 130		
1,4-Dichlorobenzene	0.178	U	0.250	0.1990	J	mg/L	80	57 - 130		
2,4-Dinitrotoluene	0.263	U	0.250	0.2995	J	mg/L	NC	60 - 130		
Hexachlorobenzene	0.259	U	0.250	0.259	U	mg/L	NC	61 - 130		
Hexachloroethane	0.220	U	0.250	0.5571	J F1	mg/L	223	52 - 130		
Hexachlorobutadiene	0.212	U	0.250	0.212	U F1	mg/L	0	52 - 130		
Nitrobenzene	0.248	U	0.250	0.3670	J F1	mg/L	147	55 - 130		
2-Methylphenol	0.584	J	0.250	0.8609	J	mg/L	111	39 - 130		
3 & 4 Methylphenol	1.03	J	0.250	1.195	J 4	mg/L	64	29 - 130		
Pentachlorophenol	0.462	U	0.500	0.5691	J	mg/L	114	29 - 141		
2,4,5-Trichlorophenol	0.271	U	0.250	0.271	U	mg/L	NC	51 - 130		
2,4,6-Trichlorophenol	0.259	U	0.250	0.4140	J	mg/L	NC	49 - 130		
Surrogate	MS		MS		MS					
	%Recovery	Qualifier		Limits						
Nitrobenzene-d5	0	X		35 - 130						
2-Fluorophenol	0	X		10 - 130						
2-Fluorobiphenyl	0	X		41 - 130						
2,4,6-Tribromophenol	0	X		12 - 138						
Terphenyl-d14	0	X		43 - 130						
Phenol-d5 (Surr)	0	X		10 - 130						

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . . - Houston

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-155440/1-A

Matrix: Waste

Analysis Batch: 155442

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155440

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	3.80	U	10.0	3.80	mg/Kg		02/05/15 11:59	02/05/15 14:22	1
>C12-C28	4.06	U	10.0	4.06	mg/Kg		02/05/15 11:59	02/05/15 14:22	1
>C28-C35	4.06	U	10.0	4.06	mg/Kg		02/05/15 11:59	02/05/15 14:22	1
C6-C35	3.80	U	10.0	3.80	mg/Kg		02/05/15 11:59	02/05/15 14:22	1

Surrogate	MB		Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
<i>o-Terphenyl</i>	94		70 - 130			02/05/15 11:59	02/05/15 14:22	1

Lab Sample ID: LCS 600-155440/2-A

Matrix: Waste

Analysis Batch: 155442

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155440

Analyte	Spike		Result	Qualifier	Unit	D	%Rec.	Limits
	Added							
C6-C12	250		214.1		mg/Kg		86	75 - 125
>C12-C28	250		206.4		mg/Kg		83	75 - 125
C6-C35	500		420.5		mg/Kg		84	75 - 125

Surrogate	LCS		Limits		
	%Recovery	Qualifier			
<i>o-Terphenyl</i>	89		70 - 130		

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 600-155628/1-A

Matrix: Waste

Analysis Batch: 155648

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155628

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	0.00290	U	0.0100	0.00290	mg/L		02/09/15 12:48	02/09/15 18:37	1
Chromium	0.003800	J	0.0100	0.00155	mg/L		02/09/15 12:48	02/09/15 18:37	1
Cadmium	0.000350	U	0.00500	0.000350	mg/L		02/09/15 12:48	02/09/15 18:37	1
Silver	0.00125	U	0.0100	0.00125	mg/L		02/09/15 12:48	02/09/15 18:37	1
Selenium	0.00417	U	0.0400	0.00417	mg/L		02/09/15 12:48	02/09/15 18:37	1

Lab Sample ID: MB 600-155628/1-A

Matrix: Waste

Analysis Batch: 155723

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155628

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	0.02976		0.0200	0.00220	mg/L		02/09/15 12:48	02/10/15 11:36	1
Arsenic	0.00328	U	0.0100	0.00328	mg/L		02/09/15 12:48	02/10/15 11:36	1
Selenium	0.00417	U	0.0400	0.00417	mg/L		02/09/15 12:48	02/10/15 11:36	1

Lab Sample ID: LCS 600-155628/2-A

Matrix: Waste

Analysis Batch: 155648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155628

Analyte	Spike		Result	Qualifier	Unit	D	%Rec.	Limits
	Added							
Lead	1.00		0.9890		mg/L		99	80 - 120

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC
Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 600-155628/2-A

Matrix: Waste

Analysis Batch: 155648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155628

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
Chromium	1.00	1.038		mg/L		104	80 - 120	
Cadmium	0.500	0.4982		mg/L		100	80 - 120	
Silver	0.500	0.5261		mg/L		105	80 - 120	

Lab Sample ID: LCS 600-155628/2-A

Matrix: Waste

Analysis Batch: 155723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155628

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
Barium	1.00	1.091		mg/L		109	80 - 120	
Arsenic	1.00	1.047		mg/L		105	80 - 120	
Selenium	1.00	1.036		mg/L		104	80 - 120	

Lab Sample ID: MB 490-226660/1-A

Matrix: Waste

Analysis Batch: 226774

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 226660

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.900	U	2.00	0.900	mg/Kg		02/10/15 13:34	02/10/15 18:15	1
Barium	1.60	U	2.00	1.60	mg/Kg		02/10/15 13:34	02/10/15 18:15	1
Cadmium	0.100	U	1.00	0.100	mg/Kg		02/10/15 13:34	02/10/15 18:15	1
Chromium	0.600	U	1.00	0.600	mg/Kg		02/10/15 13:34	02/10/15 18:15	1
Lead	0.500	U	1.00	0.500	mg/Kg		02/10/15 13:34	02/10/15 18:15	1
Selenium	1.00	U	2.00	1.00	mg/Kg		02/10/15 13:34	02/10/15 18:15	1
Silver	0.500	U	1.00	0.500	mg/Kg		02/10/15 13:34	02/10/15 18:15	1
Sodium	100	U	200	100	mg/Kg		02/10/15 13:34	02/10/15 18:15	1
Sulfur	20.0	U	50.0	20.0	mg/Kg		02/10/15 13:34	02/10/15 18:15	1

Lab Sample ID: LCS 490-226660/2-A

Matrix: Waste

Analysis Batch: 226774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 226660

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
Barium	780	684.6		mg/Kg		88	80 - 120	
Cadmium	19.5	16.61		mg/Kg		85	80 - 120	
Chromium	78.0	66.26		mg/Kg		85	80 - 120	
Lead	19.5	16.61		mg/Kg		85	80 - 120	
Sodium	1950	1695		mg/Kg		87	80 - 120	

Lab Sample ID: LCS 490-226660/2-A

Matrix: Waste

Analysis Batch: 227057

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 226660

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
Arsenic	19.5	16.73		mg/Kg		86	80 - 120	
Selenium	19.5	16.55		mg/Kg		85	80 - 120	
Silver	19.5	16.00		mg/Kg		82	80 - 120	
Sulfur	390	331.6		mg/Kg		85	80 - 120	

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . . - Houston

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 490-226660/3-A

Matrix: Waste

Analysis Batch: 226774

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 226660

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Barium	780	682.3		mg/Kg		87	80 - 120	0	20	
Cadmium	19.5	16.49		mg/Kg		85	80 - 120	1	20	
Chromium	78.0	65.91		mg/Kg		85	80 - 120	1	20	
Lead	19.5	16.73		mg/Kg		86	80 - 120	1	20	
Sodium	1950	1694		mg/Kg		87	80 - 120	0	20	

Lab Sample ID: LCSD 490-226660/3-A

Matrix: Waste

Analysis Batch: 227057

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 226660

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Arsenic	19.5	16.94		mg/Kg		87	80 - 120	1	20	
Selenium	19.5	16.82		mg/Kg		86	80 - 120	2	20	
Silver	19.5	16.20		mg/Kg		83	80 - 120	1	20	
Sulfur	390	359.6		mg/Kg		92	80 - 120	8	20	

Lab Sample ID: LB 600-155568/1-C

Matrix: Waste

Analysis Batch: 155648

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 155628

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	0.0290	U	0.100	0.0290	mg/L		02/09/15 12:48	02/09/15 18:48	1
Chromium	0.02000	J	0.100	0.0155	mg/L		02/09/15 12:48	02/09/15 18:48	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		02/09/15 12:48	02/09/15 18:48	1
Silver	0.0125	U	0.100	0.0125	mg/L		02/09/15 12:48	02/09/15 18:48	1

Lab Sample ID: LB 600-155568/1-C

Matrix: Waste

Analysis Batch: 155723

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 155628

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	0.4656		0.200	0.0220	mg/L		02/09/15 12:48	02/10/15 11:40	1
Arsenic	0.0328	U	0.100	0.0328	mg/L		02/09/15 12:48	02/10/15 11:40	1
Selenium	0.0417	U	0.400	0.0417	mg/L		02/09/15 12:48	02/10/15 11:40	1

Lab Sample ID: 600-106262-1 MS

Matrix: Waste

Analysis Batch: 155648

Client Sample ID: FT 21S012-2.4.29S

Prep Type: TCLP

Prep Batch: 155628

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier							
Lead	0.0820	J	10.0	10.20		mg/L		101	75 - 125
Chromium	0.0750	J B	10.0	10.27		mg/L		102	75 - 125
Cadmium	0.00350	U	5.00	5.070		mg/L		101	75 - 125
Silver	0.0130	J	5.00	5.393		mg/L		108	75 - 125

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 600-106262-1 MS

Matrix: Waste

Analysis Batch: 155723

Client Sample ID: FT 21S012-2.4.29S

Prep Type: TCLP

Prep Batch: 155628

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Barium	0.628	B	10.0	10.98		mg/L		104	75 - 125
Arsenic	0.0328	U	10.0	10.43		mg/L		104	75 - 125
Selenium	0.0417	U	10.0	10.43		mg/L		104	75 - 125

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 600-155568/1-B

Matrix: Waste

Analysis Batch: 155631

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 155592

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.00009069	J	0.000200	0.0000820	mg/L		02/09/15 12:14	02/09/15 15:17	1

Lab Sample ID: 600-106262-1 MS

Matrix: Waste

Analysis Batch: 155631

Client Sample ID: FT 21S012-2.4.29S

Prep Type: TCLP

Prep Batch: 155592

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Mercury	0.0169	B	0.0300	0.04461		mg/L		92	75 - 125

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 600-155595/7-A

Matrix: Waste

Analysis Batch: 155605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155595

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.005952	J	0.0157	0.00330	mg/Kg		02/09/15 08:12	02/09/15 09:40	1

Lab Sample ID: LCSSRM 600-155595/8-A ^50

Matrix: Waste

Analysis Batch: 155605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155595

Analyte	Spike	LCSSRM	LCSSRM	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Mercury	5.76	7.177		mg/Kg		124.6	71.2 - 128.

6

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: MB 600-155652/1

Matrix: Waste

Analysis Batch: 155652

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Flashpoint	>186		1.00	1.00	Degrees F			02/09/15 07:00	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method (Continued)

Lab Sample ID: LCS 600-155652/2

Matrix: Waste

Analysis Batch: 155652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Flashpoint	81.0	82.00		Degrees F	101	96.9 - 103.	1 09

Method: 9012 - Cyanide, Reactive

Lab Sample ID: MB 600-155590/1-A

Matrix: Waste

Analysis Batch: 155715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155590

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Reactive	0.0855	U	0.250	0.0855	mg/Kg		02/09/15 06:35	02/10/15 12:29	1

Lab Sample ID: LCS 600-155590/2-A

Matrix: Waste

Analysis Batch: 155715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155590

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Cyanide, Reactive	1000	4.815		mg/Kg		0.5	0 - 200

Method: 9023 - Organic Halides, Extractable (EOX)

Lab Sample ID: MB 240-167312/3-A

Matrix: Waste

Analysis Batch: 167725

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 167312

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Halogens, Extractable Organic	33.7	U	198	33.7	mg/Kg		02/11/15 06:05	02/11/15 09:51	1

Lab Sample ID: LCS 240-167312/4-A

Matrix: Waste

Analysis Batch: 167725

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167312

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Halogens, Extractable Organic	1000	971.0		mg/Kg		97	75 - 125

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 600-155590/1-A

Matrix: Waste

Analysis Batch: 155707

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155590

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfide, Reactive	14.0	U	50.0	14.0	mg/Kg		02/09/15 06:35	02/10/15 11:24	1

TestAmerica Houston

QC Sample Results

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . .– Houston

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 600-155590/12-A

Matrix: Waste

Analysis Batch: 155707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155590

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Sulfide, Reactive	1000	100.0		mg/Kg	10	10	0 - 200

Method: 9040B - pH

Lab Sample ID: LCS 600-155750/1

Client Sample ID: Lab Control Sample

Matrix: Waste

Prep Type: Total/NA

Analysis Batch: 155750

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
pH	7.00	7.000		SU	100	100	99 - 101

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 600-155467/1

Client Sample ID: Method Blank

Matrix: Waste

Prep Type: Total/NA

Analysis Batch: 155467

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	2.00	U	2.00	2.00	mg/L			02/05/15 08:33	1

Lab Sample ID: LCS 600-155467/2

Client Sample ID: Lab Control Sample

Matrix: Waste

Prep Type: Total/NA

Analysis Batch: 155467

Analyte	Spike	LCS	LCS	Unit	D	%Rec.	Limits
	Added	Result	Qualifier				
Total Suspended Solids	1200	1179		mg/L	98	98	90 - 110

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

GC/MS VOA

Leach Batch: 112647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	1311	
LB3 560-112647/1-A	Method Blank	TCLP	Waste	1311	

Analysis Batch: 112666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	8260B	
LB3 560-112647/1-A	Method Blank	TCLP	Waste	8260B	112647
LCS 560-112666/3	Lab Control Sample	Total/NA	Waste	8260B	
MB 560-112666/8	Method Blank	Total/NA	Waste	8260B	

Prep Batch: 155607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	5030B	
LCS 600-155607/1-A	Lab Control Sample	Total/NA	Waste	5030B	
LCSD 600-155607/2-A	Lab Control Sample Dup	Total/NA	Waste	5030B	
MB 600-155607/3-A	Method Blank	Total/NA	Waste	5030B	

Analysis Batch: 155609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	8260B	
LCS 600-155607/1-A	Lab Control Sample	Total/NA	Waste	8260B	155607
LCSD 600-155607/2-A	Lab Control Sample Dup	Total/NA	Waste	8260B	155607
MB 600-155607/3-A	Method Blank	Total/NA	Waste	8260B	155607

GC/MS Semi VOA

Analysis Batch: 155494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	8270C	155533
LCS 600-155533/2-A	Lab Control Sample	Total/NA	Waste	8270C	155533
MB 600-155533/1-A	Method Blank	Total/NA	Waste	8270C	155533

Prep Batch: 155533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	3580A	
LCS 600-155533/2-A	Lab Control Sample	Total/NA	Waste	3580A	
MB 600-155533/1-A	Method Blank	Total/NA	Waste	3580A	

Leach Batch: 155568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	1311	
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	1311	
LB 600-155568/1-E	Method Blank	TCLP	Waste	1311	

Prep Batch: 155586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	3510C	155568
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	3510C	155568
LB 600-155568/1-E	Method Blank	TCLP	Waste	3510C	155568
LCS 600-155568/2-A	Lab Control Sample	Total/NA	Waste	3510C	

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . .– Houston

GC/MS Semi VOA (Continued)

Prep Batch: 155586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-155586/1-A	Method Blank	Total/NA	Waste	3510C	

Analysis Batch: 155645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-155586/2-A	Lab Control Sample	Total/NA	Waste	8270C	155586
MB 600-155586/1-A	Method Blank	Total/NA	Waste	8270C	155586

Analysis Batch: 155674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	8270C	155586
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	8270C	155586
LB 600-155586/1-E	Method Blank	TCLP	Waste	8270C	155586

GC Semi VOA

Prep Batch: 155440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1 - DL	FT 21S012-2.4.29S	Total/NA	Waste	TX_1005_S_Pre p	
LCS 600-155440/2-A	Lab Control Sample	Total/NA	Waste	TX_1005_S_Pre p	
MB 600-155440/1-A	Method Blank	Total/NA	Waste	TX_1005_S_Pre p	

Analysis Batch: 155442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1 - DL	FT 21S012-2.4.29S	Total/NA	Waste	TX 1005	155440
LCS 600-155440/2-A	Lab Control Sample	Total/NA	Waste	TX 1005	155440
MB 600-155440/1-A	Method Blank	Total/NA	Waste	TX 1005	155440

Metals

Leach Batch: 155568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	1311	
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	1311	
LB 600-155568/1-B	Method Blank	TCLP	Waste	1311	
LB 600-155568/1-C	Method Blank	TCLP	Waste	1311	

Prep Batch: 155592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	7470A	155568
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	7470A	155568
LB 600-155568/1-B	Method Blank	TCLP	Waste	7470A	155568

Prep Batch: 155595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	7471A	
LCSSRM 600-155595/8-A ^50	Lab Control Sample	Total/NA	Waste	7471A	
MB 600-155595/7-A	Method Blank	Total/NA	Waste	7471A	

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-106262-1

Metals (Continued)

Analysis Batch: 155605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	7471A	155595
LCSSRM 600-155595/8-A ^50	Lab Control Sample	Total/NA	Waste	7471A	155595
MB 600-155595/7-A	Method Blank	Total/NA	Waste	7471A	155595

Prep Batch: 155628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	3010A	155568
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	3010A	155568
LB 600-155568/1-C	Method Blank	TCLP	Waste	3010A	155568
LCS 600-155628/2-A	Lab Control Sample	Total/NA	Waste	3010A	
MB 600-155628/1-A	Method Blank	Total/NA	Waste	3010A	

Analysis Batch: 155631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	7470A	155592
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	7470A	155592
LB 600-155568/1-B	Method Blank	TCLP	Waste	7470A	155592

Analysis Batch: 155648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	6010B	155628
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	6010B	155628
LB 600-155568/1-C	Method Blank	TCLP	Waste	6010B	155628
LCS 600-155628/2-A	Lab Control Sample	Total/NA	Waste	6010B	155628
MB 600-155628/1-A	Method Blank	Total/NA	Waste	6010B	155628

Analysis Batch: 155723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	TCLP	Waste	6010B	155628
600-106262-1 MS	FT 21S012-2.4.29S	TCLP	Waste	6010B	155628
LB 600-155568/1-C	Method Blank	TCLP	Waste	6010B	155628
LCS 600-155628/2-A	Lab Control Sample	Total/NA	Waste	6010B	155628
MB 600-155628/1-A	Method Blank	Total/NA	Waste	6010B	155628

Prep Batch: 226660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	3051A	
LCS 490-226660/2-A	Lab Control Sample	Total/NA	Waste	3051A	
LCSD 490-226660/3-A	Lab Control Sample Dup	Total/NA	Waste	3051A	
MB 490-226660/1-A	Method Blank	Total/NA	Waste	3051A	

Analysis Batch: 226774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	6010B	226660
LCS 490-226660/2-A	Lab Control Sample	Total/NA	Waste	6010B	226660
LCSD 490-226660/3-A	Lab Control Sample Dup	Total/NA	Waste	6010B	226660
MB 490-226660/1-A	Method Blank	Total/NA	Waste	6010B	226660

Analysis Batch: 227057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-226660/2-A	Lab Control Sample	Total/NA	Waste	6010B	226660

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Metals (Continued)

Analysis Batch: 227057 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 490-226660/3-A	Lab Control Sample Dup	Total/NA	Waste	6010B	226660

General Chemistry

Analysis Batch: 112687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	D1796	

Analysis Batch: 155467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	SM 2540D	
LCS 600-155467/2	Lab Control Sample	Total/NA	Waste	SM 2540D	
MB 600-155467/1	Method Blank	Total/NA	Waste	SM 2540D	

Prep Batch: 155590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	7.3.4	
LCS 600-155590/12-A	Lab Control Sample	Total/NA	Waste	7.3.4	
LCS 600-155590/2-A	Lab Control Sample	Total/NA	Waste	7.3.4	
MB 600-155590/1-A	Method Blank	Total/NA	Waste	7.3.4	

Analysis Batch: 155652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	1010	
LCS 600-155652/2	Lab Control Sample	Total/NA	Waste	1010	
MB 600-155652/1	Method Blank	Total/NA	Waste	1010	

Analysis Batch: 155707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	9034	155590
LCS 600-155590/12-A	Lab Control Sample	Total/NA	Waste	9034	155590
MB 600-155590/1-A	Method Blank	Total/NA	Waste	9034	155590

Analysis Batch: 155715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	9012	155590
LCS 600-155590/2-A	Lab Control Sample	Total/NA	Waste	9012	155590
MB 600-155590/1-A	Method Blank	Total/NA	Waste	9012	155590

Analysis Batch: 155750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	9040B	
LCS 600-155750/1	Lab Control Sample	Total/NA	Waste	9040B	

Prep Batch: 167312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	9023	
LCS 240-167312/4-A	Lab Control Sample	Total/NA	Waste	9023	
MB 240-167312/3-A	Method Blank	Total/NA	Waste	9023	

TestAmerica Houston

QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

General Chemistry (Continued)

Analysis Batch: 167725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-106262-1	FT 21S012-2.4.29S	Total/NA	Waste	9023	167312
LCS 240-167312/4-A	Lab Control Sample	Total/NA	Waste	9023	167312
MB 240-167312/3-A	Method Blank	Total/NA	Waste	9023	167312

Lab Chronicle

Client: CB&I Federal Services LLC
 Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-106262-1

Client Sample ID: FT 21S012-2.4.29S

Lab Sample ID: 600-106262-1

Date Collected: 02/04/15 11:35

Matrix: Waste

Date Received: 02/04/15 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			40 g	40 mL	112647	02/10/15 15:30	CC56	TAL CC
TCLP	Analysis	8260B		100	5 mL	5 mL	112666	02/11/15 13:18	RJT	TAL CC
Total/NA	Prep	5030B			1 g	10 mL	155607	02/09/15 10:00	KLV	TAL HOU
Total/NA	Analysis	8260B		1	1 g	10 mL	155609	02/09/15 13:31	KLV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155568	02/06/15 17:01	RT1	TAL HOU
TCLP	Prep	3510C			200 mL	2.0 mL	155586	02/09/15 13:58	SMB	TAL HOU
TCLP	Analysis	8270C		10	200 mL	2.0 mL	155674	02/10/15 10:21	KP1	TAL HOU
Total/NA	Prep	3580A			1.05 g	10.00 mL	155533	02/06/15 12:39	MRA	TAL HOU
Total/NA	Analysis	8270C		10	1.05 g	10.00 mL	155494	02/06/15 16:59	KP1	TAL HOU
Total/NA	Prep	TX_1005_S_Prep	DL		01.00 g	10.00 mL	155440	02/05/15 11:59	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	5	01.00 g	10.00 mL	155442	02/06/15 09:07	RJV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155568	02/06/15 17:01	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	155628	02/09/15 12:48	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	155723	02/10/15 11:42	DCL	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155568	02/06/15 17:01	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	155628	02/09/15 12:48	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	155648	02/09/15 18:50	DCL	TAL HOU
Total/NA	Prep	3051A			0.522 g	100 mL	226660	02/10/15 13:34	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.522 g	100 mL	226774	02/10/15 20:23	LEG	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	155568	02/06/15 17:01	RT1	TAL HOU
TCLP	Prep	7470A			4 mL	40 mL	155592	02/09/15 12:14	SCG	TAL HOU
TCLP	Analysis	7470A		1	4 mL	40 mL	155631	02/09/15 15:18	SCG	TAL HOU
Total/NA	Prep	7471A			0.60 g	50 mL	155595	02/09/15 08:12	SCG	TAL HOU
Total/NA	Analysis	7471A		1	0.60 g	50 mL	155605	02/09/15 09:54	SCG	TAL HOU
Total/NA	Analysis	1010		1			155652	02/09/15 07:00	MJB	TAL HOU
Total/NA	Prep	7.3.4			10.03 g	250 mL	155590	02/09/15 15:07	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.03 g	250 mL	155715	02/10/15 12:29	EAS	TAL HOU
Total/NA	Prep	9023			1.97 g	10 mL	167312	02/11/15 06:29	TPH	TAL CAN
Total/NA	Analysis	9023		1	1.97 g	10 mL	167725	02/11/15 13:01	TPH	TAL CAN
Total/NA	Prep	7.3.4			10.03 g	250 mL	155590	02/09/15 15:07	MJB	TAL HOU
Total/NA	Analysis	9034		1	10.03 g	250 mL	155707	02/10/15 11:24	EAS	TAL HOU
Total/NA	Analysis	9040B		1		20 mL	155750	02/10/15 16:10	MJB	TAL HOU
Total/NA	Analysis	D1796		1	100 mL	100 mL	112687	02/11/15 14:30	EDR	TAL CC
Total/NA	Analysis	SM 2540D		1	10 mL	500 mL	155467	02/05/15 08:33	EC1	TAL HOU

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Houston

Certification Summary

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . . - Houston

Laboratory: TestAmerica Houston

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704223	10-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260B	5030B	Waste	1,2-Dichloroethene, Total
9012	7.3.4	Waste	Cyanide, Reactive
9034	7.3.4	Waste	Sulfide, Reactive
SM 2540D		Waste	Total Suspended Solids
TX 1005	TX_1005_S_Prep	Waste	>C12-C28
TX 1005	TX_1005_S_Prep	Waste	>C28-C35
TX 1005	TX_1005_S_Prep	Waste	C6-C12

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	03-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15 *
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

Laboratory: TestAmerica Corpus Christi

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704210	03-31-15

Analysis Method Prep Method Matrix Analyte

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

* Certification renewal pending - certification considered valid.

Certification Summary

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-106262-1

Project/Site: CB&I Federal Services LLC . .– Houston

Laboratory: TestAmerica Nashville (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704077	08-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6010B	3051A	Waste	Sulfur

TestAmerica Houston

6310 Rothway Street

Houston, TX 77040

Phone (713) 690-4444 Fax (713) 690-5645

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <u>D. Cobb</u>	Lab PM: <u>Joiner, Dean A</u>	600-106262 Chain of Custody																																						
Client Contact: <u>10 Day Cassidee</u>		Phone: <u>409-446-8408</u>	E-Mail: <u>dean.joiner@testamericainc.com</u>																																							
Company: CB&I Federal Services LLC		Analysis Requested																																								
Address: PO BOX 98519		Due Date Requested:																																								
City: Baton Rouge		TAT Requested (days): <u>5 WD Level 2</u>																																								
State, Zip: LA 70884																																										
Phone: 469-446-8408		PO #: Purchase Order Requested																																								
Email: jeroy.cassidee@CBIFederalServices.com		WO #: Contract EP-S6-07-02 Task Order 62																																								
Project #: 23 CB&I Federal Services LLC - Houston		SSOW#: <u>CES Environmental Services</u>																																								
Site:		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Oyster shell, T=Tissue, A=Air)	Field Filtered Sample Yes/No	Portions Yes/No	TCLP VOCs	TCLP SVOCs	TCLP Metals	TCLP-Herbicide*	TCLP-Pesticide*	RCI	TPH, TOX	Total VOCs	Total SVOCs	Total Metals + Sulphur	Total Herbicide*	Total Pesticide*	Total % Water	Total Number of Contaminants																					
Sample Identification <u>HT 215012-24.2015</u>		<u>24.2015</u>	<u>125</u>	<u>G</u>	<u>w</u>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																					
Preservation Codes: <u>AC</u>																Special Instructions/Note: <u>AC</u>																										
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																								
Deliverable Requested: I, II, III, IV, Other (specify)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																								
Empty Kit Relinquished by: <u>CSK</u>		Date: <u>24.2015</u>	Time:	Method of Shipment:																																						
Relinquished by: <u>CSK</u>		Date/Time: <u>24.2015</u>	Company: <u>CB&I</u>	Received by: <u>Deni Felix</u>	Date/Time: <u>2/4/15 7:30 pm</u>	Company: <u>CB&I</u>	Relinquished by: <u>CSK</u>		Date/Time: <u>24.2015</u>	Company: <u>CB&I</u>	Received by: <u>Deni Felix</u>	Date/Time: <u>2-4-15 1516</u>	Company: <u>CB&I</u>	Relinquished by: <u>CSK</u>		Date/Time: <u>24.2015</u>	Company: <u>CB&I</u>	Received by: <u>Deni Felix</u>	Date/Time: <u>2-4-15 1516</u>	Company: <u>CB&I</u>	Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:																			
Relinquished by: <u>CSK</u>		Date/Time: <u>24.2015</u>	Company: <u>CB&I</u>	Received by: <u>Deni Felix</u>	Date/Time: <u>2-4-15 1516</u>	Company: <u>CB&I</u>																																				
Relinquished by: <u>CSK</u>		Date/Time: <u>24.2015</u>	Company: <u>CB&I</u>	Received by: <u>Deni Felix</u>	Date/Time: <u>2-4-15 1516</u>	Company: <u>CB&I</u>																																				
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:																																								

TestAmerica Houston

Loc: 600
106262

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sample Re list

Date/Time Received:

JOB NUMBER:

CLIENT:

UNPACKED BY:

CARRIER/DRIVER:

Custody Seal Present: YES NONumber of Coolers Received: 1

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
white	Y / N	Y / N	15.1	5A1	-3	14.8
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? YES NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: NO YESBase samples are >pH 12: YES NO Acid preserved are <pH 2: YES NOpH paper Lot #: HC432654VOA headspace acceptable (5-6mm): YES NO NA

YES NO

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

COMMENTS:

Same day Sample
Chill in progress

150918

Custody Seal

2.4.201

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

DATE

SIGNATURE

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

150918

Sample Receipt Check

Date/Time Received:

JOB NUMBER: _____

CLIENT: _____

UNPACKED BY: _____

CARRIER/DRIVER: _____

Custody Seal Present: YES NONumber of Coolers Received: 0

Cooler ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Them CF	Corrected Temp (°C)
Box	Y / N	Y / N	18.4	3A	-3	18.1
	Y / N	Y / N				
	Y / N	Y / N	2.8			
	Y / N	Y / N	2.5			
	Y / N	Y / N	15			
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice? YES NOLABORATORY PRESERVATION OF SAMPLES REQUIRED: NO YESBase samples are >pH 12: YES NO Acid preserved are <pH 2: YES NO

pH paper Lot #: _____

VOA headspace acceptable (5-6mm): YES NO NA

YES NO

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

COMMENTS:

2-4-15

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-106262-1

Login Number: 106262

List Source: TestAmerica Houston

List Number: 1

Creator: Crafton, Tommie S

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True		7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	True		10
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.	11
Cooler Temperature is recorded.	True	14.8	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time.	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A	Check done at department level as required.	

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-106262-1

Login Number: 106262

List Number: 4

Creator: Contreras, Kristen N

List Source: TestAmerica Corpus Christi

List Creation: 02/10/15 02:01 PM

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A		1
The cooler's custody seal, if present, is intact.	True		2
Sample custody seals, if present, are intact.	True		3
The cooler or samples do not appear to have been compromised or tampered with.	True		4
Samples were received on ice.	True		5
Cooler Temperature is acceptable.	True		6
Cooler Temperature is recorded.	True		7
COC is present.	True		8
COC is filled out in ink and legible.	True		9
COC is filled out with all pertinent information.	True		10
Is the Field Sampler's name present on COC?	True		11
There are no discrepancies between the containers received and the COC.	True		12
Samples are received within Holding Time.	True		13
Sample containers have legible labels.	True		14
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-106262-1

Login Number: 106262

List Source: TestAmerica Nashville

List Number: 3

List Creation: 02/10/15 11:25 AM

Creator: McBride, Mike

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	